

RTCA SC-186 Working Group 3

Introduction to DO-260A Update

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1090 MHz ES MOPS Background

- DO-260 released September 2000
 - RTCA and EUROCAE jointly developed DO-260 and ED-102
- DO-260A released April 2003
 - EUROCAE did not update ED-102
- DO-260 Change 1 and DO-260A Change 1 both issued in June 2006
- DO-260A Change 2 issued December 2006

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DO-260A Change 3 Background

- DO-260A Change 2 was issued by RTCA 12/13/06.
- Since Change 2, a number of changes were collected and presented during WG-3 Meeting #23, held as a teleconference in November 2007. A draft of Change 3 was introduced then with the following main items:
 - Elimination of the geographic filter in the TEST Message to allow the Mode A code transmission internationally.
 - Test Procedure corrections, including CPR test criteria.
 - Several changes to align DO-260A with ICAO 1090ES documents (ICAO Doc 9871), including adding the TCAS RA broadcast capability.

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DO-260A Change 3 Background (2)

- FAA released Notice of Proposed Rulemaking (NPRM) for ADS-B in October 2007
- Although DO-260A Change 2 was initially deemed the baseline for the rule, it was recognized during the rulemaking comment period that changes would be required in the MOPS to support the final rule
- RTCA SC-186 WG-3 was waiting for rulemaking activities to finalize prior to commencing an update to the 1090ES MOPS

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DO-260A Change 3 Background (3)

- At the April 2008 Plenary, SC-186 formed an Ad Hoc Subgroup for the purpose of reviewing the STP MOPS to determine whether parts of it should be incorporated into the Link MOPS and/or into the FAA Advisory Circulars (AC) for Navigation or ADS-B OUT:
 - Coordination with the ARC on pertinent issues including latency
 - Most of the retained material from STP MOPS will be included in ACs
- At the September 2008 SC-186 Plenary, EUROCAE WG-51 requested that the update to DO-260A be developed jointly with WG-51 SG-1 to produce ED-102A. SC-186 committee strongly endorsed the proposal.
- WG-51 needed to obtain approval from the EUROCAE Council before commencing the activity. Subsequently, Jorg Steinleitner was chosen to lead SG-1.
- WG-3 and EUROCAE agreed to this January 2009 initial meeting, followed by a February meeting in Brussels.

DO-260A Update Approach

- Update to the 1090ES MOPS will be jointly developed with EUROCAE WG-51 SG-1.
- Schedule to support FAA rulemaking is the priority:
 - WG-3 and WG-51 SG-1 will develop a work plan that is driven by this schedule.
 - Some of the desired changes to the 1090ES MOPS may need to be deferred to the next MOPS revision if not required for rulemaking, and if including them would jeopardize the schedule.
- Since some of the updates to the MOPS are also MASPS issues (since they impact both 1090ES and UAT), Working Group 6 will be supporting the WG-3/WG-51 SG-1 activities.

DO-260A Update Approach (2)

- Coordination with the ICAO Aeronautical Surveillance Panel (ASP) during the activity must be maintained. International standards will be subsequently updated to incorporate the required changes.
- Initial WG-3/SG-1 meetings will focus on:
 - Determining what will be included in the update to the MOPS;
 - Decision on the specific approach to apply:
 - DO-260A Change 3 or DO-260B
 - Multiple Changes
 - DO-260A Change 3 followed by DO-260B
 - DO-260B followed by DO-260B Change 1
 - DO-260B followed by DO-260C